

ACCEL+

The only neurostimulation platform previously PMA approved with a Design History File with the FDA



A Complete Solution

The ACCEL+ System can be used to accelerate research or modified to support your commercialization requirements.

- Harness your regulatory strategy by leveraging the Device Master File on record with the FDA.
- Choose from a full suite of peripherals, leads, and surgical instruments.
- Ideal for research, early feasibility studies, and accelerated launch strategies.
- Manufactured and configured to your specifications

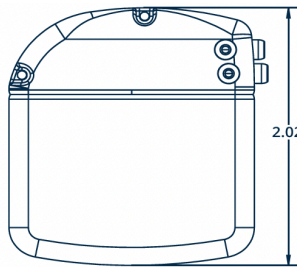
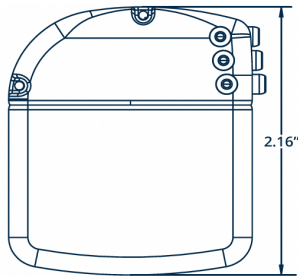
Working Together

Partnering with us brings you closer to turning your innovative ideas into breakthrough therapies.

- Whether your goal is to bring a novel therapy to market or rapidly move to a next generation design suitable for high volume manufacturing, we can help.
- With more than three decades of experience, we understand the technical, practical and regulatory issues needed to bring new and next generation products to market.
- You can work confidently knowing our platform meets the highest quality standards.

Implantable Pulse Generator

- Two configurations
 - » 3 ports x 8 independent channels (3 leads, each with 8-electrodes) u 2 ports x 12 independent channels (2 leads, each with 12-electrodes)
- 24 dedicated current sources (0 to 15 mA per channel - 30mA total output maximum)
- Enhanced wireless communication capabilities
- Rechargeable, deep-discharge recovery battery
- Biphasic Square Pulse Shape
- Small volume (19.5 and 20.5 cc)



External Pulse Generator

- EPG functionality identical to IPG
- Extensions in 1x8 and 1x12 configurations
- Patient controlled using the Pocket Programmer
- Number of programs – 1 to 10
- Number of sub-programs per program – 1 to 4
- Electrode configuration: Up to two 12 electrode leads or three 8 electrode leads
- Trial percutaneous leads (identical in construction to permanent leads)
- Amplitude
 - » Upper patient limit 15.0 mA
 - » Lower patient limit 0.017 mA
- Pulse width – 20 to 1500 μ s (20- μ s resolution)
- Frequency
 - » Upper patient limit 2000 Hz
 - » Lower patient limit 2 Hz
- Power source – 2 AAA batteries
- EPG housing made of polycarbonate material



Pocket Programmer

- Key fob sized rechargeable programmer used to operate IPG/EPG
- Uses MICS telemetry to communicate with the IPG/EPG
- Basic functions:
 - » Turn stimulation on/off
 - » Adjust stimulation strength
 - » Displays battery status for both the IPG and programmer



Programmer Charger

- Patient hand-held, rechargeable touch screen device and a detachable charging paddle
- Dual functions:
 - » Recharges the IPG
 - » Provides advanced programming options
- Optional adjustable belt and adhesive patches hold charging paddle over the site of the IPG while it recharges



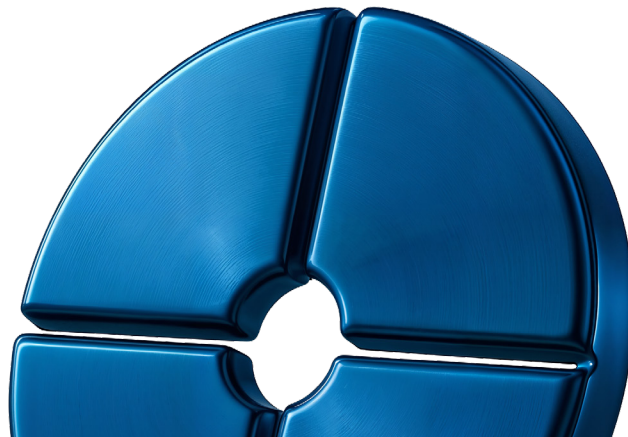
Leads

- Percutaneous leads available in multiple lengths and three electrode spacing options
- 1x8 and 1x12 lead extensions provide additional length
- 8- and 12-electrode trial lead kits available in compact or standard electrode spacing options
- All leads are constructed with biocompatible materials

ACCEL+ LEAD PORTFOLIO	1X8 PERCUTANEOUS		1X12 PERCUTANEOUS		PADDLE	
	COMPACT	STANDARD	COMPACT	STANDARD	3-4-3-2	2X6
Electrode Height	3MM	3MM	3MM	3MM	6MM	6MM
Vertical Electrode Spacing (MM)	1MM	4MM	1MM	4MM	2MM	2MM
Lead Lengths (MM)	45, 60, 75	45, 60, 75	45, 60, 75	45, 60, 75	45, 60	45, 60

ASIC Solutions

ASIC OPTIONS	CSI020	CSI080	CSI040
Number of Independent channel outputs	32	4	16
Maximum single channel output current (mA)	12.7	6.12	25.4
Maximum stimulation voltage (V)	18	18	18
Maximum pulse frequency (kHz)	14.25	12.5	50
Pulse width range (μ s)	20-1000	10-2550	2.5-1280
Pulse width resolution (μ s)	10	10	10
Simulation type	Bipolar	Monopolar	Monopolar or Bipolar
Minimum supply operating voltage (V)	3.5	2.4	2.4
Integrated battery charge controller	Yes	No	No



Cirtec Medical is a global leader in design, development, and manufacturing of complex Class II and III medical devices, specializing in active implant systems, interventional devices, and precision components.

Since 1987, Cirtec Medical has built extensive in-house capabilities that enable the company to serve as a single-source partner and collaborate with customers to transform their technology into innovative medical devices. With 11 global facilities and a vertically integrated approach, Cirtec Medical aims to expedite time to market, reduce risk, and accelerate revenue generation for our partners.

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